



MIAMI-DADE COUNTY, FLORIDA

BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

## **NOTICE OF ACCEPTANCE (NOA)**

**Lawson Industries, Inc.**  
8501 NW 90<sup>th</sup> Street  
Medley, FL 3316

### **SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Aluminum Tube Mullion for Series SH-7700 Aluminum Single Hung Window - Impact**

**APPROVAL DOCUMENT:** Drawing No. M01-04, dated 10/25/01, with revision E dated 08/28/06, titled "Mullion Elevations and Details", sheets 1 through 3, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews and revises** NOA No. 01-1120.01, consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



*J. Gascon*  
10/26/06

NOA No 06-0620.19  
Expiration Date: June 20, 2012  
Approval Date: November 16, 2006  
Page 1

Lawson Industries, Inc.

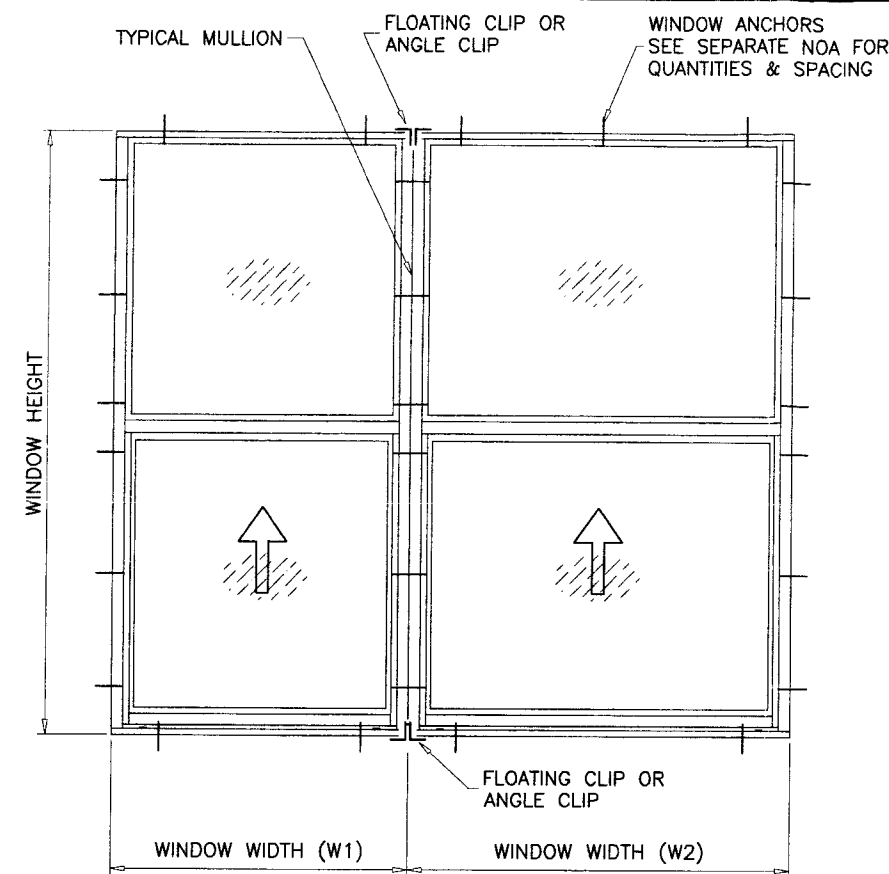
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. **DRAWINGS**
1. Manufacturer's die drawings and sections.
  2. Drawing No. **M01-04**, dated 10/25/01, with revision E dated 08/28/06, titled "Mullion Elevations and Details", sheets 1 through 3, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.
- B. **TESTS "Submitted under NOA No. 01-1120.01"**
1. Test reports on 1 Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of series SH-7700 aluminum single hung windows mulled together, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-3200**, dated September 28, 2001, signed and sealed by Luis Figueredo, P.E.
  2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of series SH-7700 aluminum single hung windows mulled together, prepared by Fenestration Testing Laboratories, Inc., Test Report No. **FTL-3372**, dated March 11, 2002, signed and sealed by Luis Figueredo, P.E.
- C. **CALCULATIONS**
1. Revised Anchor Calculations and structural analysis, prepared by Al-Farooq Corporation, dated 08/30/06, signed and sealed by Humayoun Farooq, P.E.
- D. **MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **02-1205.03** issued to Security Impact Glass Holdings L.L.C. for their "SAF -GLAS" dated **01/02/03**, expiring on 12/16/07.
  2. Notice of Acceptance No. **03-0421.01** issued to Solutia Inc. for their "Saflex HP lamination of glass" dated 05/22/03, expiring on 04/14/08.
- E. **STATEMENTS**
1. Statement letter of conformance, dated 04/14/2006, signed and sealed by Humayoun Farooq, P.E.  
Statement letter of no financial interest, dated April 4, 2002, signed and sealed by Humayoun Farooq, P.E. **"Submitted under NOA No. 01-1120.01"**
  2. Laboratory compliance letter for Test Report no. FTL- 3200, issued by Fenestration Testing Laboratory, Inc., dated October 5, 2001, signed and sealed by Luis Figueredo, P.E.
- F. **OTHER**
1. NOA # 01-1120.01, expiring June 20, 2007.



Jaime D. Gascón, P.E.  
Chief, Product Control Division  
NOA No 06-0620.19

Expiration Date: June 20, 2012  
Approval Date: November 16, 2006

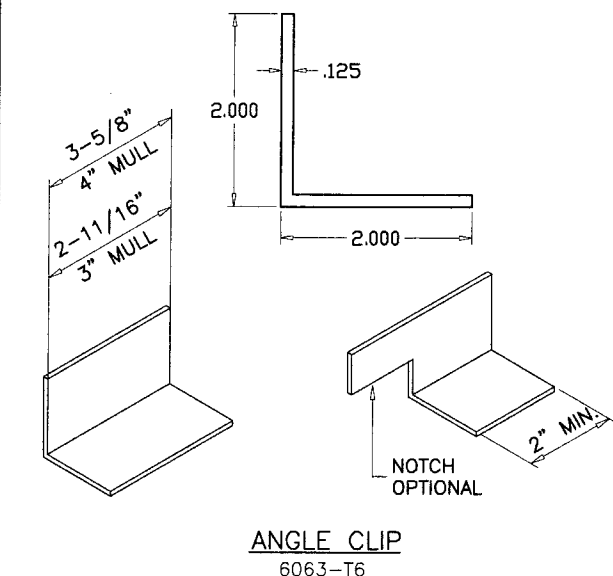
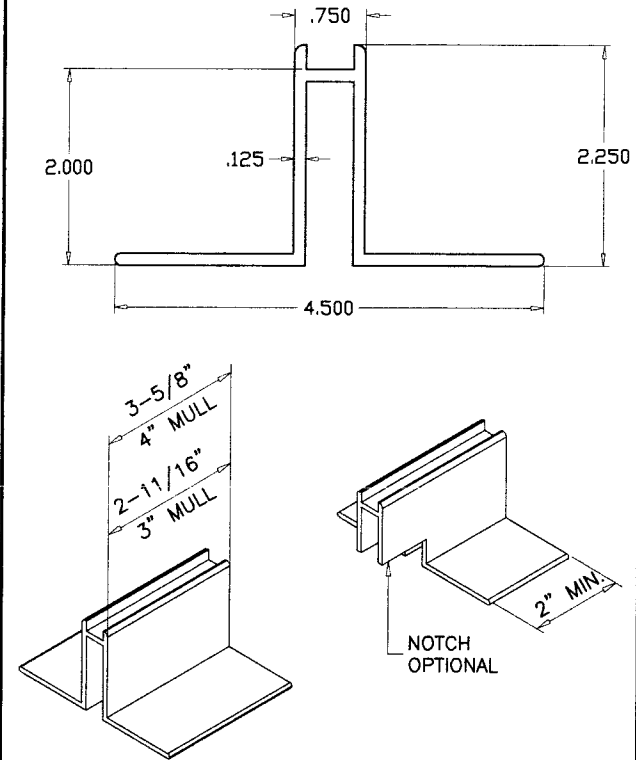
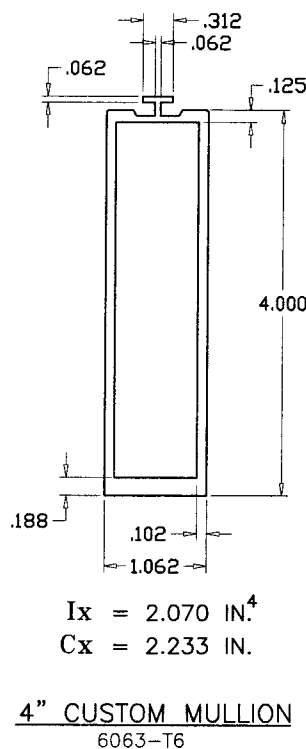
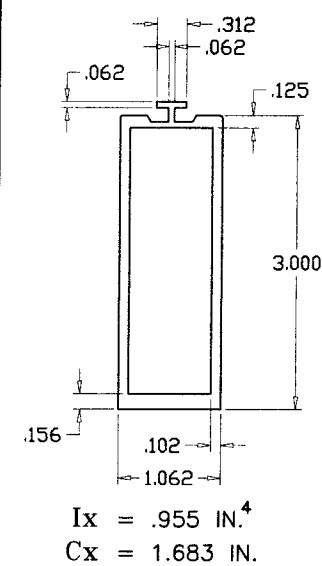


$$\text{AVG. WIDTH} = \frac{W1 + W2}{2}$$

FOR OTHER PERIMETER ANCHORS REFER TO PRODUCT APPROVAL.

#### NOTE:

APPROVAL APPLIES TO TWO OR MORE WINDOWS MULLED TOGETHER.



#### ANCHORS MIN. EDGE DISTANCES

INTO CONCRETE (MIN.  $f_c' = 3000 \text{ PSI}$ ) = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

#### ANCHORS C TO C DISTANCES

INTO CONCRETE (MIN.  $f_c' = 3000 \text{ PSI}$ ) = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 06-0620.19  
Expiration Date 06/20/12  
By: [Signature]  
Miami Dade Product Control Division

AUG 30 2006

#### ALUMINUM TUBE MULLION

#### WINDOW FRAME MEMBER INCLUDED IN PROPERTIES

USE WITH:

SERIES SH-7700 SINGLE HUNG WINDOW

#### NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION (REV. 2005) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

CLIPS OR ANGLES CONNECTED DIRECTLY TO MASONRY TO BE PROTECTED WITH ALKALI-RESISTANT COATINGS, SUCH AS BITUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACQUER.

#### THESE MULLIONS ARE RATED FOR LARGE MISSILE IMPACT

#### INSTRUCTIONS:

USE MULLION/ANCHOR CHART AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2** USE CONNECTION TO MULLION AS PER PRODUCT APPROVAL.
- STEP 3** USING CHART ON SHEET 2 SELECT ANCHORS WITH DESIGN RATING MORE THAN THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** CAPACITY OF LAWSON'S 7700 SINGLE HUNG WINDOW AND MULLION MUST EQUAL OR EXCEED REQUIRED LOADS.

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978

#### MULLION ELEVATIONS AND DETAILS

**LAWSON INDUSTRIES**  
7030 N.W. 37 TH. COURT  
MIAMI, FL. 33147  
TEL. (305) 696-8660 FAX (305) 696-6006

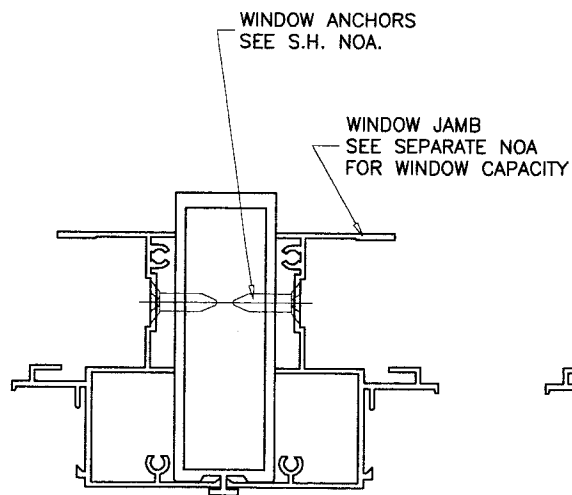
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B	04.30.02	REV. PER BCCO COMMENTS	
C	05.30.02	REV. PER BCCO COMMENTS	
D	04.20.06	UPDATED FOR 2004 FBC	
E	08.28.06	REV. PER BCCO COMMENTS	

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dr. by: HAMID  
chk. by:

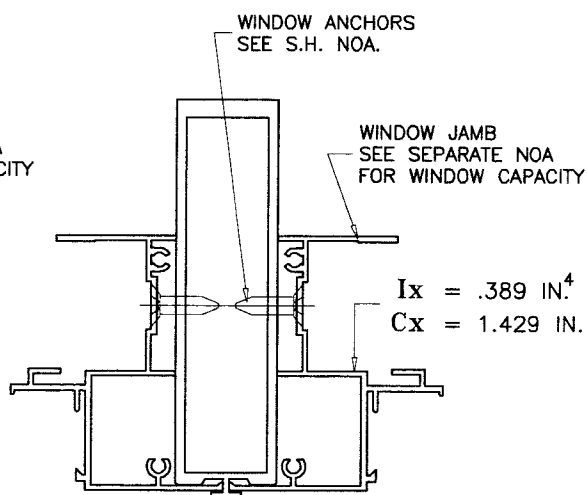
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**M01-04**

sheet 1 of 5

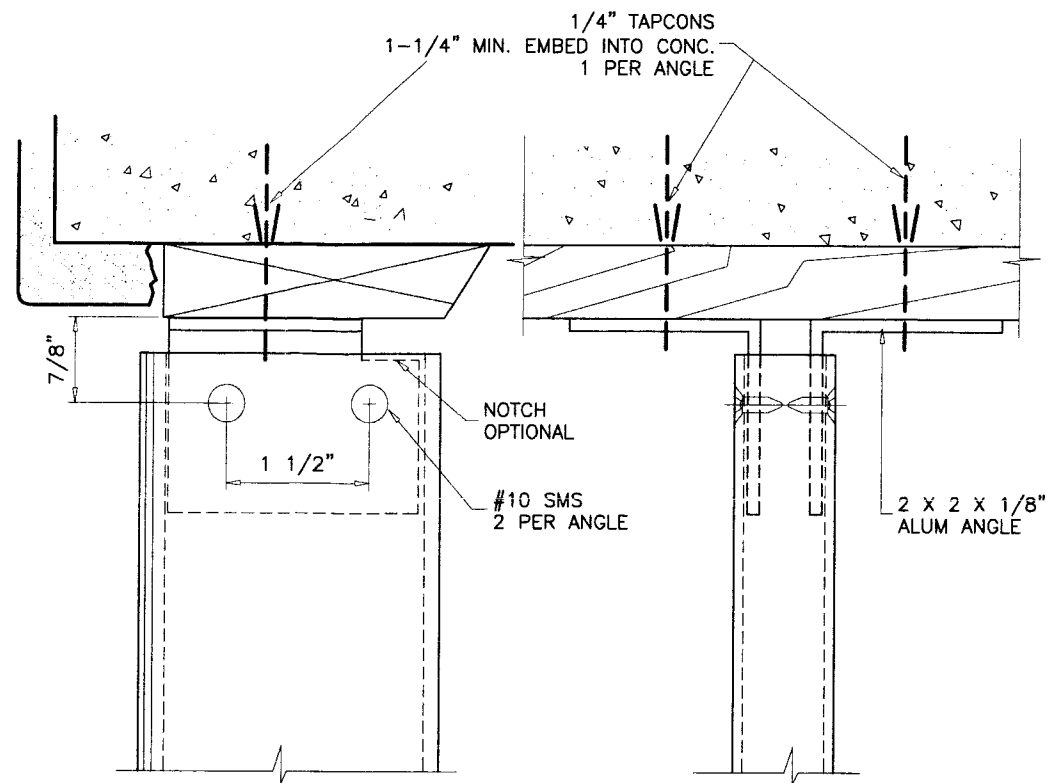
DESIGN LOAD CAPACITY - PSF POSITIVE (+) AND NEGATIVE (-)							
WINDOW DIMS.		3" CUSTOM MULLION			4" CUSTOM MULLION		
AVG. WIDTH	HEIGHT	ANCHOR 'A'	ANCHOR 'B'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'B'	ANCHOR 'C'
19-1/8"	38-3/8"	100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		100.0	100.0	100.0	100.0	100.0	100.0
37"		100.0	100.0	100.0	100.0	100.0	100.0
40"		100.0	100.0	100.0	100.0	100.0	100.0
44"		98.9	100.0	100.0	98.9	100.0	100.0
48"		90.7	100.0	100.0	90.7	100.0	100.0
53-1/8"	50-5/8"	81.9	99.2	100.0	81.9	99.2	100.0
19-1/8"		100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		100.0	100.0	100.0	100.0	100.0	100.0
37"		89.2	100.0	100.0	89.2	100.0	100.0
40"		82.5	99.8	100.0	82.5	99.8	100.0
44"		75.0	90.8	100.0	75.0	90.8	100.0
48"		68.7	83.2	100.0	68.7	83.2	100.0
53-1/8"	57"	62.1	75.2	100.0	62.1	75.2	100.0
19-1/8"		100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		100.0	100.0	100.0	100.0	100.0	100.0
37"		79.2	95.9	100.0	79.2	95.9	100.0
40"		73.3	88.7	100.0	73.3	88.7	100.0
44"		66.6	80.6	100.0	66.6	80.6	100.0
48"		61.1	73.9	100.0	61.1	73.9	100.0
53-1/8"	63"	55.2	66.8	98.0	55.2	66.8	100.0
19-1/8"		100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		100.0	100.0	100.0	100.0	100.0	100.0
37"		71.7	86.7	100.0	71.7	86.7	100.0
40"		66.3	80.2	100.0	66.3	80.2	100.0
44"		60.3	72.9	96.0	60.3	72.9	100.0
48"		55.2	66.9	88.0	55.2	66.9	100.0
53-1/8"	74-1/4"	49.9	60.4	79.5	49.9	60.4	97.5
19-1/8"		100.0	100.0	100.0	100.0	100.0	100.0
26-1/2"		84.9	98.2	98.2	84.9	100.0	100.0
37"		60.8	70.3	70.3	60.8	73.6	99.1
40"		56.2	65.0	65.0	56.2	68.1	91.7
44"		51.1	59.1	59.1	51.1	61.9	83.4
48"		46.9	54.2	54.2	46.9	56.7	76.4
53-1/8"		42.3	49.0	49.0	42.3	51.3	69.0



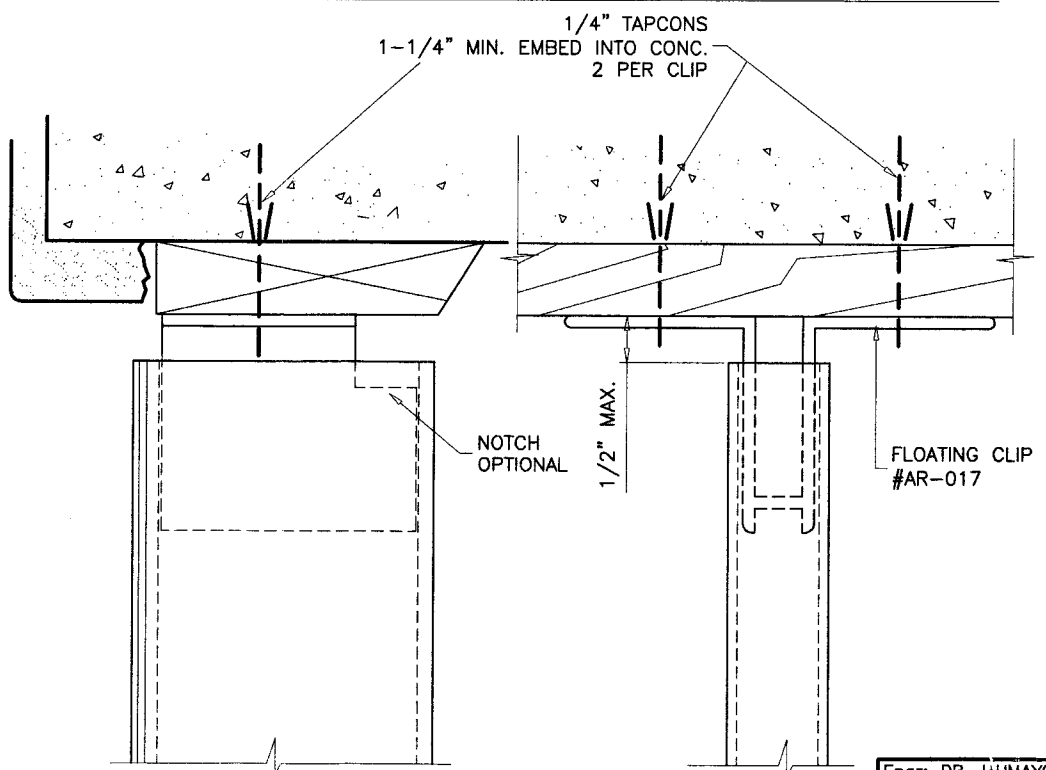
3" CUSTOM MULLION



4" CUSTOM MULLION



ANCHORS TYPE 'A'  
USING ANGLE CLIPS  
ANCHORS THRU WOOD BUCKS INTO MASONRY



ANCHORS TYPE 'A'  
USING FLOATING CLIP  
ANCHORS THRU WOOD BUCKS INTO MASONRY

TAPCONS BY 'ELCO IND. INC.'

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
C.A.N. 3538

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 06-0620-19  
Expiration Date 06/20/12  
By: [Signature]  
Miami Code Product Control  
Division

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978

MULLION M01-04

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MULLION ELEVATIONS AND DETAILS

**LAWSON INDUSTRIES**  
7030 N.W. 37 TH. COURT  
MIAMI, FL. 33147  
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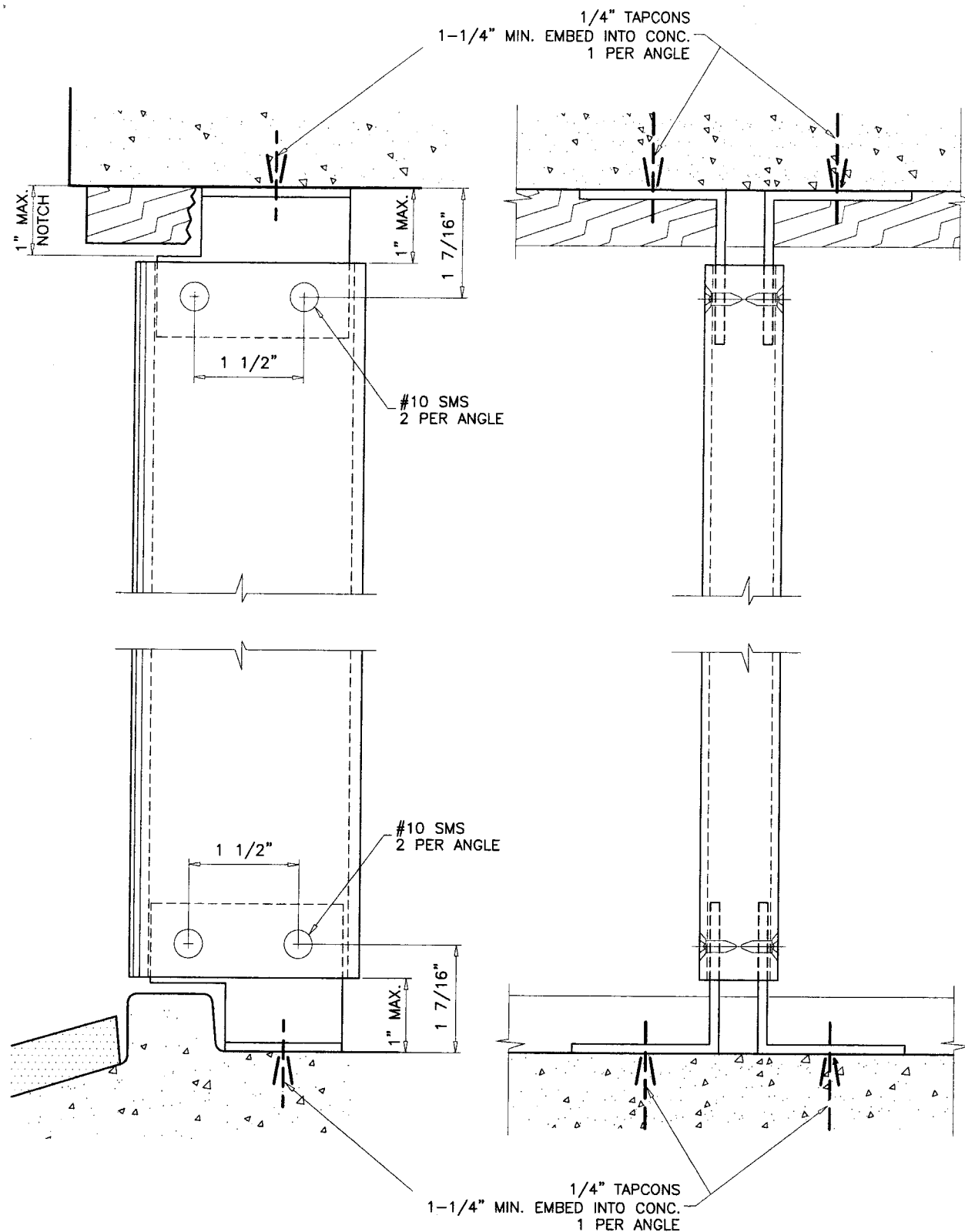
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E	08.28.06		REV. PER BCCO COMMENTS

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chk. by:

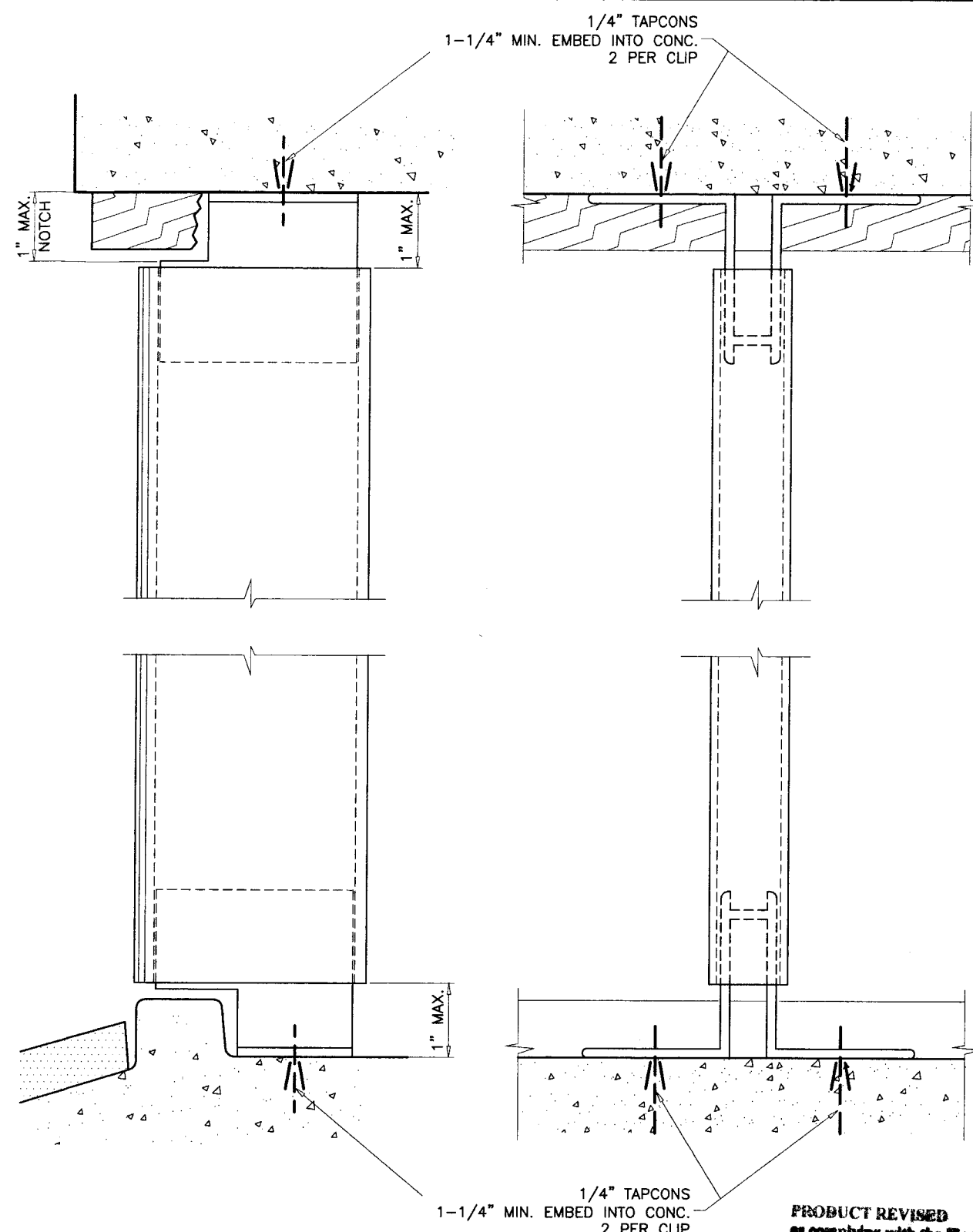
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**M01-04**  
sheet 2 of 5

AUG 30 2006



**ANCHORS TYPE 'B'**  
USING ANGLE CLIPS  
ANCHORS DIRECTLY TO MASONRY

TAPCONS BY 'ELCO IND. INC.'



**ANCHORS TYPE 'B'**  
USING FLOATING CLIP  
ANCHORS DIRECTLY TO MASONRY

Engr: DR. HUMAYOUN FAROOQ  
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MULLION ELEVATIONS AND DETAILS

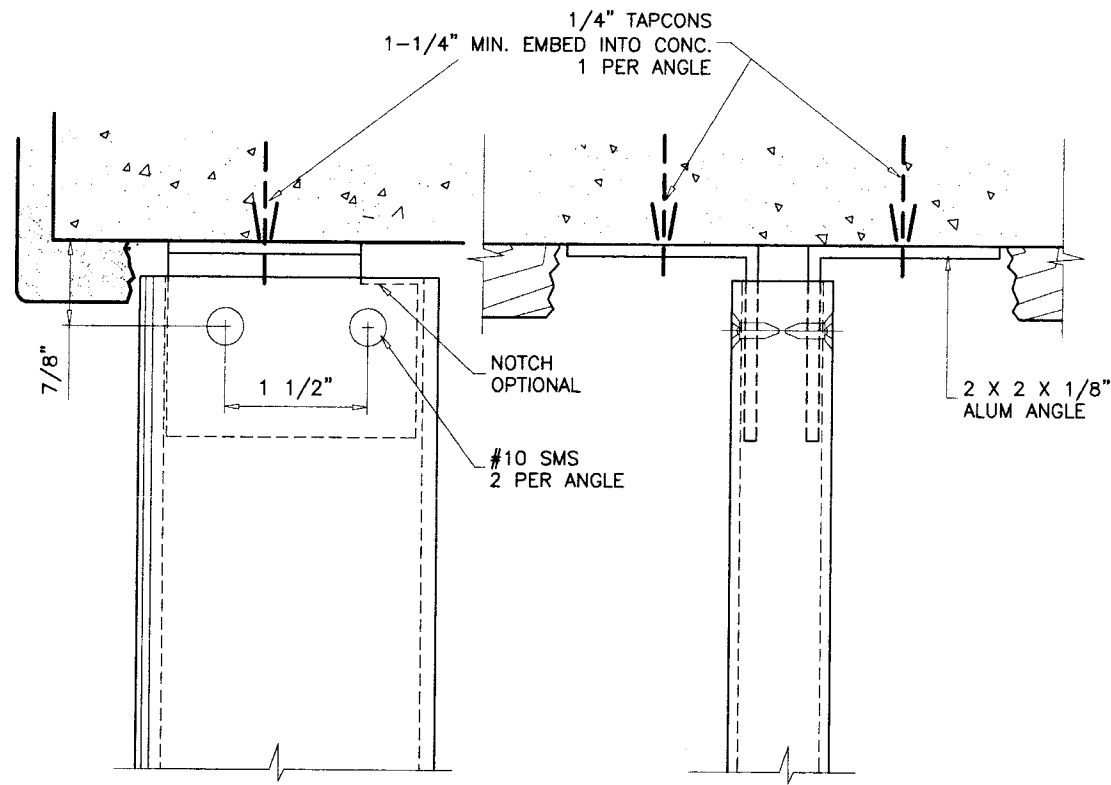
**LAWSON INDUSTRIES**  
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E	08.28.06		NO CHANGE THIS SHEET

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chk. by:

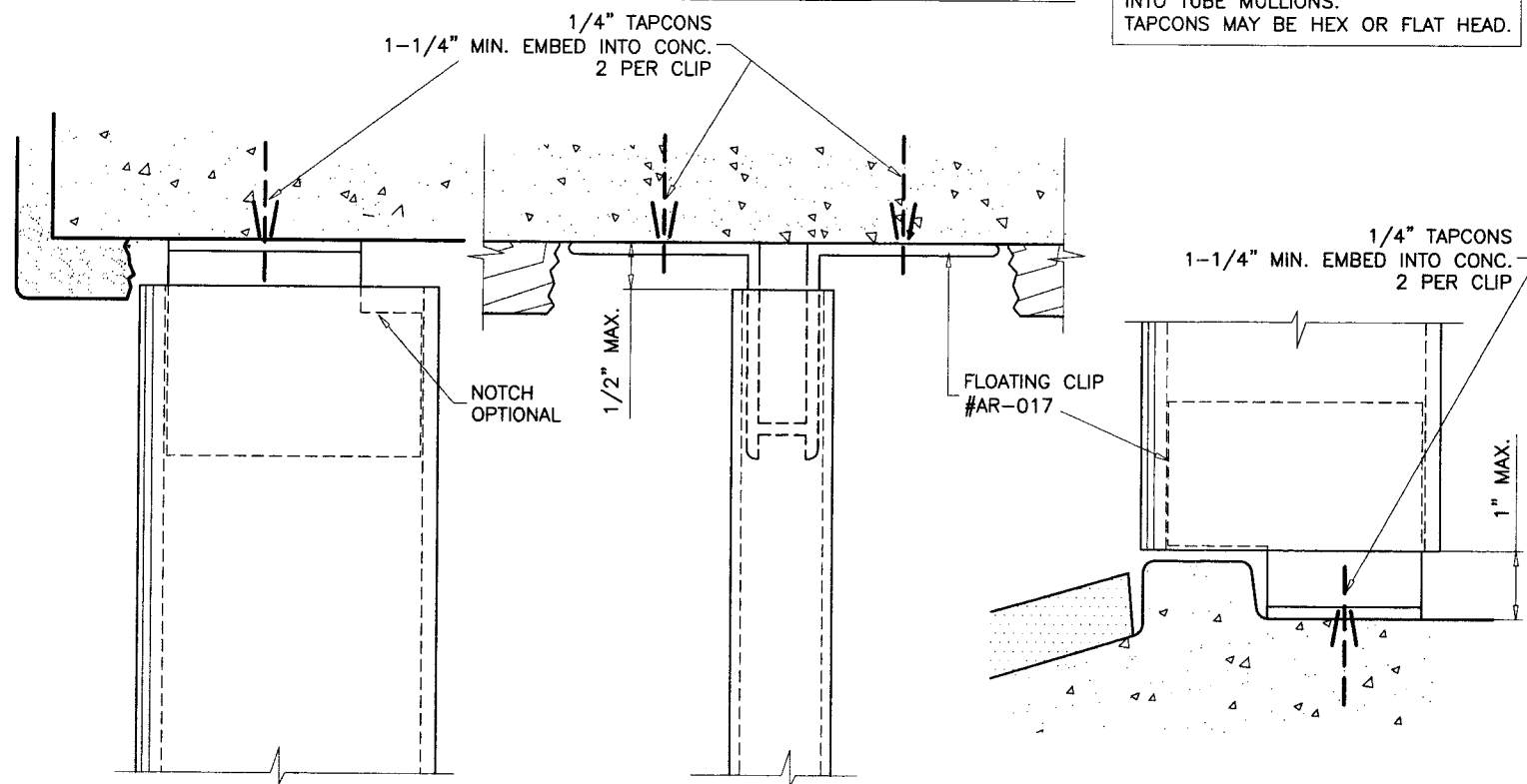
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**M01-04**  
sheet 3 of 5

MULLION M01-04



**ANCHORS TYPE 'B'**  
USING ANGLE CLIPS  
ANCHORS DIRECTLY TO MASONRY

ALL CLIPS AND ANGLES TO FIT SNUG  
INTO TUBE MULLIONS.  
TAPCONS MAY BE HEX OR FLAT HEAD.



**ANCHORS TYPE 'B'**  
USING FLOATING CLIP  
ANCHORS DIRECTLY TO MASONRY

Engr. DR. HUMAYOON FAROOQ  
STRUCTURES  
FLA. PE # 16557  
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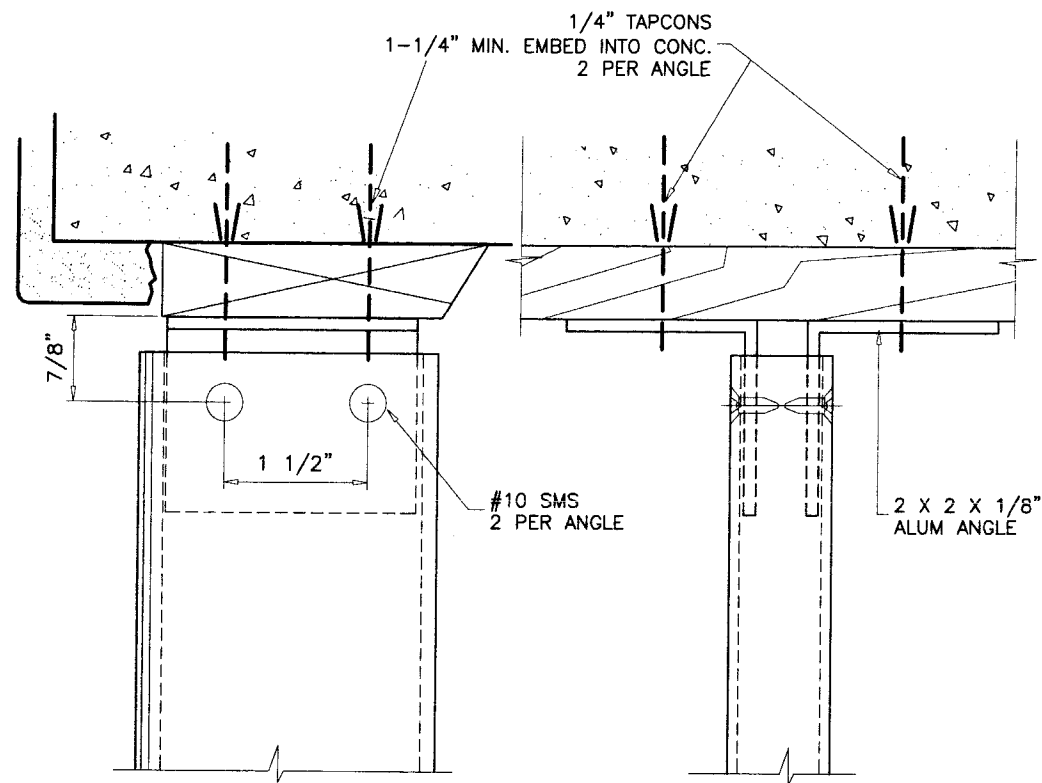
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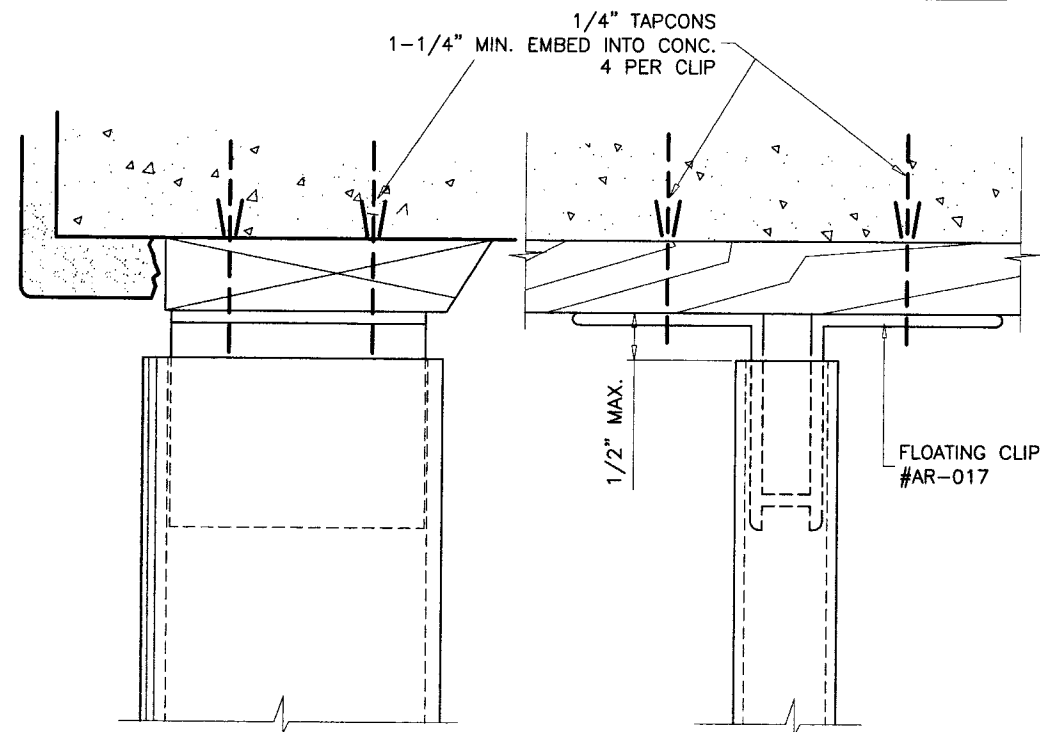
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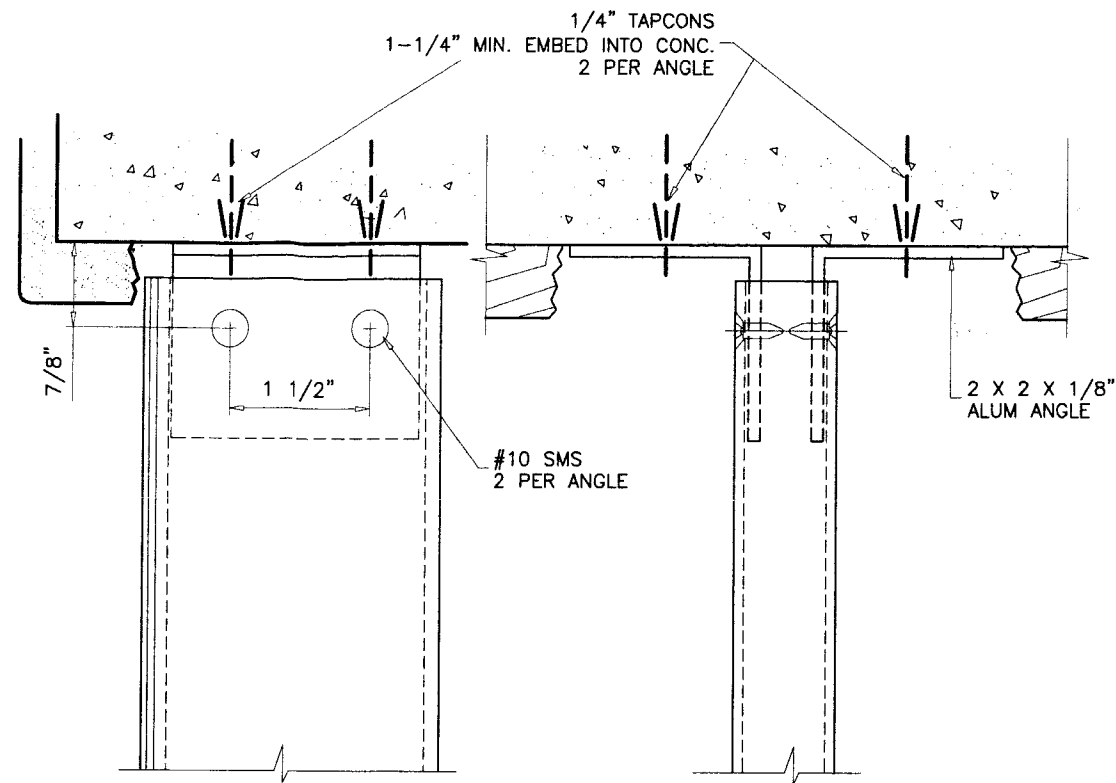
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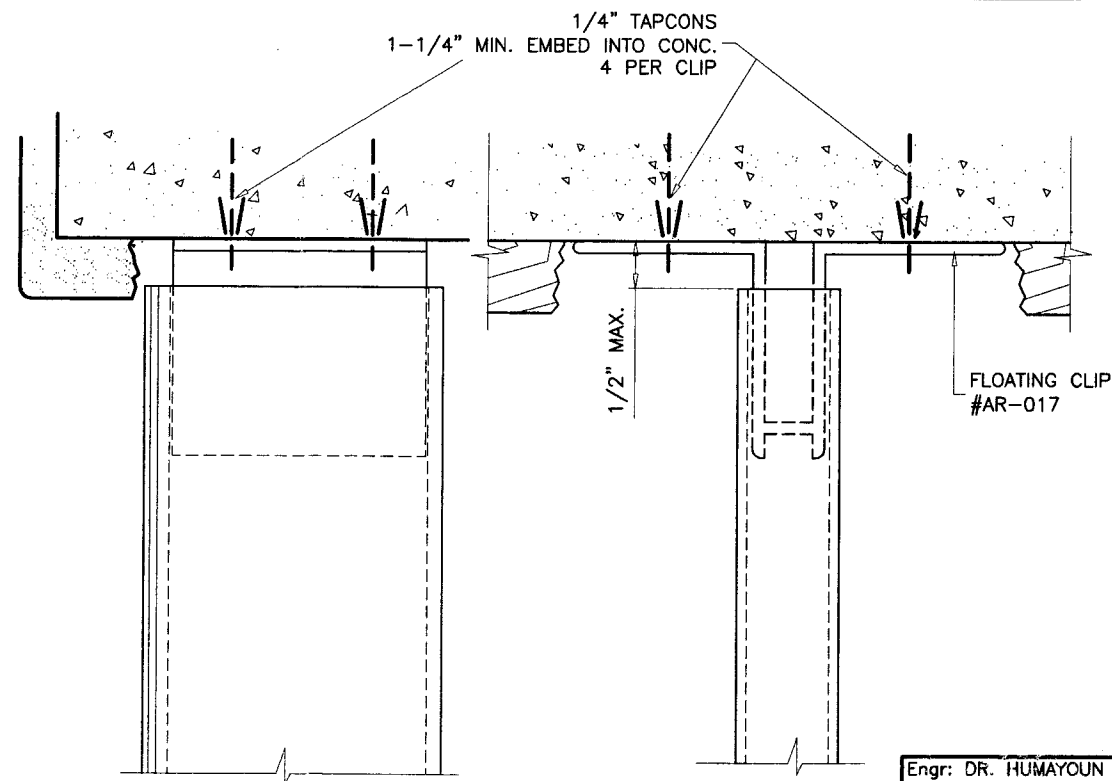
**ANCHORS TYPE 'C'**  
USING ANGLE CLIPS  
ANCHORS THRU WOOD BUCKS INTO MASONRY



**ANCHORS TYPE 'C'**  
USING FLOATING CLIP  
ANCHORS THRU WOOD BUCKS INTO MASONRY



**ANCHORS TYPE 'C'**  
USING ANGLE CLIPS  
ANCHORS DIRECTLY TO MASONRY



**ANCHORS TYPE 'C'**  
USING FLOATING CLIP  
ANCHORS DIRECTLY TO MASONRY

ALL CLIPS AND ANGLES TO FIT SNUG  
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TAPCONS MAY BE HEX OR FLAT HEAD.

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AUG 30 2006

*afc*

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MULLION ELEVATIONS AND DETAILS

**LAWSON INDUSTRIES**  
7030 N.W. 37 TH. COURT  
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date:	10-25-01
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dr. by:	HAMID
chk. by:	

drawing no.

**M01-04**

sheet 5 of 5

MULLION\M01-04